

A BOTANICAL TOUR IN THE SOUTH LUSHAI HILLS

A. T. GAGE

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By

A. T. GAGE.

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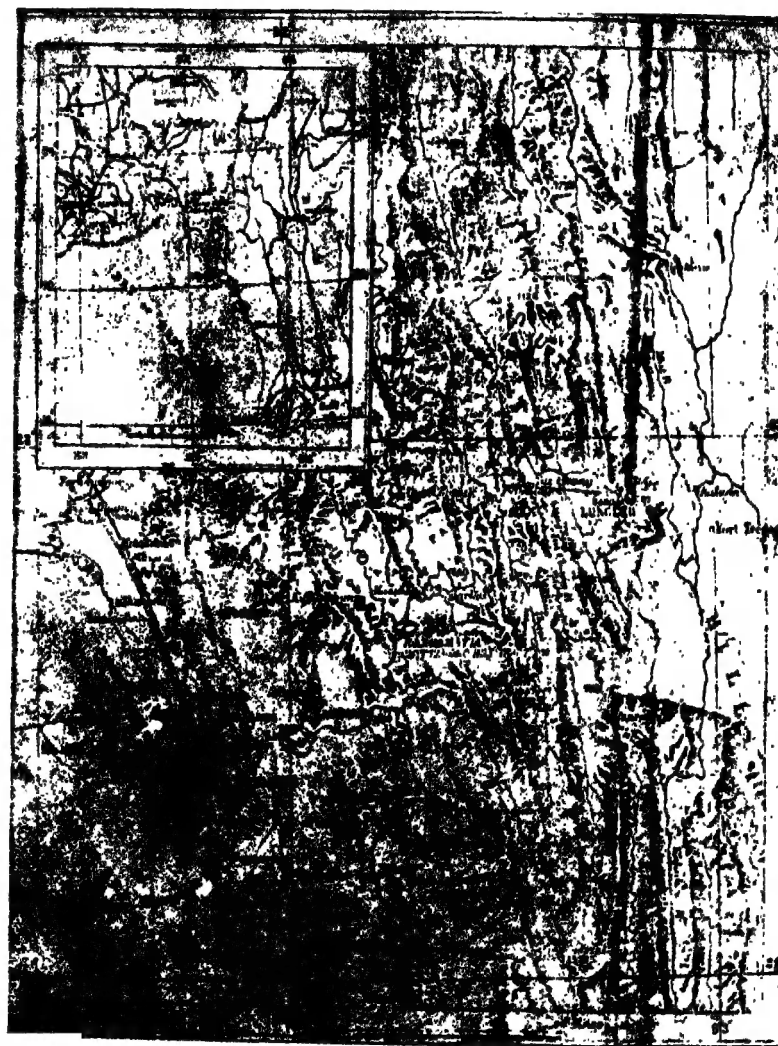
A NOTE

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**Tribal Research Institute
Aizawl**

Dr. (Mrs.) N. Chatterji
Senior Research Officer

Route Map of Botanical Tour in the South Lushai Hills
Rec. Bot.Surv.India Vol. I. N. XIII.



A BOTANICAL TOUR IN THE SOUTH LUSHAI HILLS

THE following is an account of a short botanical excursion made by the writer in the spring of 1899 to a portion of the South Lushai Hills in accordance with instructions from the Director of the Botanical Survey of India.

The writer left Calcutta on the evening of the 15th March 1899 and arrived at Chittagong on the morning of the 17th, the journey being accomplished partly by rail and partly by river steamer down the combined Ganges and Bramhaputra river. The route then lay in a north-easterly direction up the Karnaphuli river, which flows into the Bay of Bengal at Chittagong, as far as Demagiri ; thence directly eastwards across the Lushai ranges to Fort Lungleh. At Chittagong a dug-out manned by three men was engaged to proceed up stream as far as Rangamatti, and a week's provisions were laid in. Late on the evening of the 18th March, the writer accompanied by two servants started on the journey up the river. The boatmen kept to their work the greater part of the night and the next day, halting for meals and a mid-day rest. The night of the 19th was spent camped on the river bank. An early start was made next morning, and Rangamatti, the first 'station' after Chittagong, was reached that afternoon. Rangamatti is sixty-five miles by river from Chittagong and is situated at an elevation of about 100 feet in a narrow loop of the river, where it first bends to the south-east and then abruptly to the north-west. The station is in the Bengal Presidency, and is a small clean-looking village with a good dak bungalow. A detachment of Ghurka police are stationed here. An assistant commissioner and a deputy magistrate are the only European residents.

The river here runs between rather steep banks and meanders through a wide, flat, somewhat sparsely wooded vale. Coming up towards Rangamatti, cultivated patches line the river banks here and there, bearing plantains, melons, papayas, etc.

The night of the 20th was spent in the Rangamatti dak bungalow. Through the good offices of the assistant commissioner two dug-outs were obtained, in place of the one which had done the journey from Chittagong whither it returned.

Early on the morning of the 21st a fresh start was made, and rowing kept up till nightfall, when camp was pitched. Next day Barkhal was reached in the afternoon. The latter part of the journey to Barkhal was difficult and tedious from the dug-out constantly getting aground on shoals or the flat rocks in the river bed.

At Barkhal itself there are nearly two miles of impassable rapids the river here flowing in a gorge, as the name Barkhal implies, with very steep and thickly wooded banks. To get over the difficulty caused by the presence of the rapids the Government has constructed on the north bank of the river a single trolly line of rail running from the foot to the head of the rapids, where the line and the jungle clearing alike cease. The trollies are propelled by Sonthal coolies.

With some difficulty two fresh dug-outs were secured, to take the place of the two from Rangamatti. Accordingly on the morning of the 23rd March the last stage of the river journey was begun, and that night camp was pitched just above the rapids of Utan Chatra, through which the dug-out was hauled by main force.

Next day the 24th, after surmounting one more set of rapids Demagiri was reached and the river journey ended. Demagiri is about fifty-six miles from Rangamatti, that is, about 120 miles from Chittagong by river. Between Barkhal and Demagiri is the boundary between Bengal and Assam.

The scenery for the first twenty or thirty miles up the river differed in no wise from the ordinary plains scenery.

As one journeyed higher up, however, the banks became

steeper and more thickly wooded, with multitudinous species of trees and shrubs. Collections were made at each of the halting places so far as time permitted. These, however, are not included in the present report, as the localities do not come within the South Lushai Hills.

At Demagiri the writer met with the subdivisional officer for Lungleh, who was returning thither after having been out on tour, and in his company the remainder of the journey was made.

The four marches that intervened between Demagiri and Fort Lungleh were as follows :—

25th March	.	.	Demagiri	to	Tuichong	8 miles.
26th	„	.	Tuichong	„	Lungsin	10½ „
27th	„	.	Lungsin	„	Ridge camp	13 „
28th	„	.	Ridge camp	„	Fort Lungleh	10½ „

These were four very fatiguing marches in the hot sun and uphill the whole way practically, and during the last three the writer suffered from slight fever, and on reaching Fort Lungleh was obliged to lay up for a day or two. So practically nothing was collected on the land part of the journey to Lungleh.

The writer was most hospitably received at Fort Lungleh by Mr. C. B. Drake-Brockman, the Subdivisional Officer, and Lieut. Bailey, I.S.C. assistant commandant, the only Europeans there. The writer then stayed at Fort Lungleh up to the 19th April, when circumstances compelled his return to Calcutta. The actual collecting period was thus reduced to about three weeks, of which one week was lost partly owing to very bad weather and a recurrence of the writer's fever.

Had it been possible for the excursion to have taken place earlier in the year, and had more time been available doubtless a better collection would have been got.

The return journey was unfortunate from a weather point of view. The journey from Lungsin to Tuichong was made amid torrents of rain, quite precluding any attempt at collecting. The river journey from Demagiri to Barkhal was also done under the

same wretched circumstances, in addition the dug-out running against a rock and partially capsizing in shooting the Utan Chattra rapids, so that what the rain did not wet the river effectually did.

Next day the 24th April was spent at Barkhal, where the rain poured steadily down the whole day, in drying clothes and paper.

Rangamatti was reached on the 25th April, Chittagong on the 28th, and Calcutta on the 30th April.

Special thanks are due to Major Shakespeare, C.I.E., superintendent of the Lushai Hills, for allowing access to that region and for giving facilities for obtaining coolies and supplies.

The South Lushai Hills are formed of several parallel ranges running roughly north and south between latitude 22° and 24° N. and longitude 92° to 94° East. The altitude varies from about 2,000 to 4,000 feet, with a few isolated peaks reaching 7,000 feet. The valleys are very deep with exceedingly steep slopes, covered with a dense impenetrable jungle of climbing palms, creepers, bamboos, etc., amongst which tower lofty trees, the most conspicuous of which are huge Dipterocarps.

The general features of the flora are practically those of the adjacent Burmese hills. Epiphytic orchids abound, chiefly species of *Dendrobium* and form conspicuous masses of colour on the trees. Scitamineous plants and aroids are very common, and the trailing strings of *Dioscorea* fruits were very frequent. Amongst the commoner trees in addition to the Dipterocarps were *Saurauja punduana* Wall., *Schima Wallichii* Choisy, *Duabanga sonneratoides* Ham, *Gmelina arborea* Roxb. Bamboos formed a very conspicuous feature of the jungle but none was found in flower.

Fort Lungleh itself is situated on a ridge at an elevation of 3,500 feet. In the list, when Fort Lungleh is given as the locality of collection, the altitude is not mentioned, but is to be taken as about 3000 feet. The approximate altitude of other localities is given in most cases.

For much help in identifying the species of the collection generally the writer is specially indebted to Major Prain. The list of orchids is made up to a small extent from specimens collected by the writer, but mostly from living plants collected by Lieut. Bailey for his own study. Examples of each species in Lieut. Bailey's collection were very generously given by him to the writer, who forwarded them to Mr. Pantling of the Government Cinchona Department. The thanks of the writer are due to Mr. Pantling for kindly identifying those that were sent to him.

In the list the number within brackets, when present, after the name of each species is the field number. The sketch map at the end of the note shows the route and the position of Lungleh. For a map showing the relative position of the Lushai Hills to their surroundings the reader is referred to Pottinger and Prain's note on the Botany of the Kachin Hills, No. 11 of the Records, page 310.

Phanerogams.

DICOTYLEDONES.

Thalamiflora.

I. RANUNCULACEÆ

1. *Clematis grewiniflora* D.C. (No. 29).
In fruit.
Fort Lungleh.
Distrib. Lower temperate, and Subtropical Himalaya,
Kachin hills ; Naga hills ; Manipur ; Burmah.

II. ANONACEÆ

2. *Goniiothalamus sesquipetalis*. *Hf. & T.* (No. 95).
Leaves only.
Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Sikkim to Assam, Khasia hills to Tenasserim.

III. MENISPERMACEÆ.

3. *Pericampylus incanus* *Miers* (No. 58).
In flower.
Fort Lungleh.
Distrib. Kachin hills ; Eastern Himalaya ; Southern
China ; Indo-China ; Malaya.
4. *Stephania rotunda* *Lour.* (No. 217).
Fort Lungleh.
Leaves only.
Distrib. Tropical and Temperate Himalaya ; Khasia
hills ; Pegu ; South-West India.

5. *Lophophyllum bicristatum* Griff. (No. 43).
In fruit.
Fort Lungleh.
Distrib. Eastern Himalaya ; Khasia hills ; Manipur ;
Burmah.

IV. CRUCIFERÆ.

6. *Nasturtium indicum*, D.C. var. *bengalensis* (No. 215).
Between Ridge Camp and Lungsin.
Alt. circa 2,500 feet.
Distrib. of variety. Bengal ; Chittagong ; Silhet ; Khasia
Hills ; Assam.

V. CAPPARIDÆ.

7. *Roydsia suaveolens* Roxb. (Nos. 41 and 77).
In flower and fruit.
Fort Lungleh.
Distrib. Sikkim ; Bhotan ; Assam ; Chittagong and
Burmah.

VI. BIXINÆ.

8. *Gynocardia odorata* Roxb. (Nos. 70 and 178).
In fruit.
Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Chittagong and Burmah.
9. *Hydnocarpus* sp. (No. 71).
Fort Lungleh.

VII. PITTOSPOREÆ.

10. *Pittosporum floribundum* W. & A. (No. 103).
In fruit.
Helio Hill Lungleh. Alt. 3,700 feet.
Distrib. North-Western Himalaya ; Sikkim ; Khasia Hills,
Burmah ; South India.

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VIII. GUTTIFERÆ.

11. *Garcinia Xanthochymus* Hook, f. (No. 205).
In fruit.
Distrib. Sikkim ; Khasia hills ; Burmah ; South India ;
Ceylon ; Eastern Peninsula ; Andamans

IX. TERNSTROEMIACEÆ.

12. *Saurauja punduana* Wall (No. 51).
In flower.
Fort Lungleh.
Distrib. Sikkim ; Bhotan ; Khasia hills ; Burmah.
13. *Schima Wallichii* Choisy (No 33).
In flower and fruit.
Fort Lungleh.
Distrib. North-Western Himalaya ; Sikkim, Khasia hills ;
Assam ; Chittagong and Burmah.

X. DIPTEROCARPEÆ.

14. *Dipterocarpus turbinatus* Gaertn.
Huge trees of which only the fallen young fruits were
collected.

XI. MALVACEÆ.

15. *Abutilon polyandrum* Schlecht (No. 108).
In fruit.
Fort Lungleh.
Distrib. Tropical Himalaya ; South, West, and Central
India ; Burmah ; Java.
16. *Urena lobata* Linn. var. *tomentosa* (No. 60).
In fruit.
Fort Lungleh.
Distrib. General in the tropics.

17. *Hibiscus pungens Roxb.* (No. 157).

In fruit.

Fifteen miles South-East of Fort Lungleh.

Distrib. North-Western Himalaya ; Nepal ; Sikkim ; Bhotan ; Duphla hills ; Naga hills ; Khasia hills ; Assam ; Bengal ; Burmah.

XII. STERCULIACEÆ.

18. *Sterculia colorata Roxb.* (No. 111).

In flower.

Fort Lungleh.

Distrib. India and Indo-China

19. *Buettneria aspera Colebrooke* (No. 69).

In fruit.

Fort Lungleh.

Distrib. Nepal ; Sikkim ; Khasia hills , Assam ; Burmah ; Andamans.

20. *Buettneria pilosa Roxb.* (No. 200).

In fruit.

Between Fort Lungleh and Ridge Camp. Alt. circa 3,000 feet.

Distrib. Kachin hills ; Assam ; Chittagong and Burmah.

XIII. TILIACEÆ.

21. *Columbia floribunda Wall.* (No. 193).

In fruit.

Fort Lungleh.

Distrib. Assam ; Burmah.

22. *Triumfetta Pilosa Roth.* (No. 59).

In fruit.

Fort Lungleh.

Distrib. India ; Indo-China ; China ; Malaya ; Africa.

Disciflora.

XIV. MALPHIGIACEÆ.

23. *Hiptage acuminata* Wall. var. (No. 146).
 In flower and fruit.
 A tall climber.
 Fort Lungleh.
 Distrib. Khasia hills ; Naga hills ; Manipur ; Assam ;
 Burmah.

XV. GERANIACEÆ.

24. *Oxalis corniculata* Linn. (No. 216).
 In fruit.
 Fort Lungleh.
 Distrib. Cosmopolitan.

XVI. RUTACEÆ.

25. *Toddalia aculeata* Pers. (Nos. 42 and 102).
 In fruit.
 Helio hill, Lungleh. Alt. 3,700 feet.
 Distrib. India ; Indo-China ; China · Malaya.
26. *Glycosmis pentaphylla* Correa. (No. 80).
 In flower
 Fort Lungleh.
 Distrib. North-Western Himalaya ; Sikkim ; Khasia hills ;
 Assam ; Burmah ; Andamans ; South and West India ;
 Ceylon ; Malaya Peninsula and Archipelago , Philip-
 pines ; Australia.
27. *Micromelum pubescens* Bl. (Nos. 20 and 36).
 In fruit.
 Fort Lungleh.
 Distrib. Nepal ; Sikkim ; Khasia hills ; Naga hills ;
 Assam ; Chittagong and Burmah ; Malaya ; Ceylon ,
 Java ; China.

28. *Murray exotica* Linn. (No. 183).
In flower.
Fort Lungleh.
Distrib. North-Western Himalaya ; Assam ; Chittagong
and Burmah ; Andamans, South-West India ; Ceylon ;
China ; Australia ; Pacific Islands.
29. *Clausena suffruticosa* W. & A. (No. 46).
In flower.
Fort Lungleh.
Distrib. Khasia hills ; Chittagong and Burmah.
30. *Citrus Medica* Linn. (No. 65).
In flower and fruit. Helio hill, Lungleh. Alt. 3,700
feet. Distrib. North-Western Himalaya ; Sikkim ;
Khasia hills ; Garo hills ; Kachin hills ; Chittagong
and Burmah ; Western Ghats ; Central India.

XVII. BURSERACEÆ.

31. *Garuga pinnata* Roxb. (No. 274).
In fruit,
Fort Lungleh.
Distrib. Throughout India ; Assam ; Burmah ; Malaya ;
Philippines.

XVIII. MELIACEÆ.

32. *Dysoxylum binectariferum* Hook f. (No. 198).
In fruit.
Between Lungleh and Ridge Camp. Alt. circa 3,000 feet.
Distrib. Sikkim ; Khasia hills ; Assam ; Chittagong and
Burmah ; South India ; Ceylon ; Malacca ; Java.
33. *Dysoxylum procerum* Hiern. (No. 177).
In fruit. Fort Lungleh.
Distrib. Sikkim ; Bhotan ; Khasia hills ; Assam ;
Chittagong and Burmah.

34. *Chisocheton paniculatus* *Hiern* (No. 203).
In fruit. Fort Lungleh.
Distrib. Sikkim ; Cachar ; Khasia hills ; Assam ;
Chittagong and Burmah.
35. *Aglaja Chittagonga* *Miq.* (No. 161).
In fruit. Fifteen miles South-East of Lungleh. Alt. 3,000
feet. Distrib. Khasia hills ; Duphla hills ; Akha hills .
Chittagong ; Burmah.

XIX. CELASTRINEÆ.

36. *Microtropis discolor* *Wall.* (No. 159).
In fruit. Fifteen miles South-East of Fort Lungleh.
Distrib. North-West Himalayas ; Sikkim ; Khasia hills ;
Assam ; Manipur ; Kachin hills ; Burmah.
37. *Celastrus monosperma* *Roxb.* (Nos. 16 and 147).
In fruit. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Naga hills , Burmah.
38. *Gymnosporia acuminata* *Hook. f.* (No. 40).
In fruit. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Eastern Peninsula ;
Burmah ; Yunnan.

XX. AMPELIDEÆ.

39. *Vitis adnata* *Wall.* (No. 220).
In fruit. Demagiri. Alt. circa 500 feet.
Distrib. North-Western Himalaya ; Sikkim ; Khasia
hills ; Cachar ; Assam ; Chittagong and Burmah ; S.
India ; Malay Peninsula.
40. *Vitis angustifolia* *Wall.* (No. 221).
In fruit. Fort Lungleh.
Distrib. Khasia hills ; Kachin hills ; Silhet ; Assam ;
Sumatra ; Hong Kong.

41. *Vitis capriolata* Don. (No. 104).
 In fruit. Helio hill, Lungleh. Alt. 3,700 feet.
 Distrib. North-Western Himalaya ; Sikkim ; Khasia Hills ; Assam ; Kachin hills ; Chittagong and Burmah.
42. *Vitis lanceolaria* Wall. (No. 8).
 In fruit. Fort Lungleh.
 Distrib. North-Western Himalaya ; Nepal ; Sikkim ; Khasia hills ; Assam ; Chittagong and Burmah ; Andamans ; South and West India ; Ceylon ; Malaya ; Java.
43. *Vitis Japonica* Thunb. (No. 219).
 In flower. Demagiri. Alt. 500 feet.
 Distrib. Sikkim ; Khasia Hills ; Naga hills ; Manipur ; Assam ; Chittagong and Burmah ; Nicobars ; Andamans ; South India ; Malaya ; Java ; China.
44. *Leea sambucina* Willd. (No. 85).
 In fruit. Fort Lungleh.
 Distrib. Common throughout India and Burmah ; Ceylon ; Malaya ; China ; Philippines ; Australia.

XXI. SAPINDACEÆ.

45. *Acer* sp. (No. 138).
 In fruit. Fifteen miles S. E. of Lungleh.
 Not matched in Herb. Calcutta. Nearest *Acer isolobum* Kurz but quite distinct.
46. *Turpinia pomifera* D.C. (No. 255).
 In fruit. Fort Lungleh.
 Distrib. Nepal ; Sikkim ; Khasia hills ; Naga hills ; Assam ; Kachin hills ; Chittagong and Burmah ; South and West India ; Malaya ; Yunnan ; China.

Calycifloræ.

XXII. CONNARACEÆ.

47. *Connarus paniculatus Roxb.* (No. 27).
 In fruit. Fort Lungleh.
 Distrib. Khasia hills ; Silhet ; Assam ; Chittagong ;
 Burmah.

XXIII. LEGUMINOSÆ.

48. *Crotalaria ferruginea Grah.* (No. 92).
 In fruit. Helio hill ; Lungleh. 3,700 feet.
 Distrib. Nepal ; Sikkim ; Khasia hills ; Naga hills ;
 Kachin hills ; Chittagong and Burmah ; Ceylon ; Java ;
 Sumatra ; Philippines ; Formosa.
49. *Desmodium gangeticum D.C.* (No. 224).
 In fruit. Fort Lungleh.
 Distrib. Universal in the tropics.
50. *Erythrina stricta Roxb.* (No. 112).
 In flower and fruit. Fort Lungleh.
 Distrib. India from Rajputana to Orissa ; Assam ;
 Burmah and Chittagong.
51. *Mucuna imbricata D.C.* (No. 225).
 In flower. Fort Lungleh.
 Distrib. North-Western Himalaya ; Sikkim , Silhet ;
 Assam ; Manipur ; Burmah ; Andamans.
52. *Dunbaria podocarpa Kurz.* (No. 192).
 In flower and fruit. Fort Lungleh.
 Distrib. Burmah.
53. *Flemingia stricta Roxb.* (No. 227).
 In fruit. Fort Lungleh.
 Distrib. North-Western Himalaya ; Sikkim ; Oude ;
 South and Central India ; Assam ; Chittagong and
 Burmah.

54. *Dalbergia volubilis Roxb.* (No. 196).
In fruit. Fort Lungleh.
Distrib. Sikkim Terai ; Assam ; Chittagong and Burmah ;
Andamans ; Oude ; Bihar ; Central, South and West
India.
55. *Derris monticola Prain.* (No. 23).
In flower. Fort Lungleh.
Is *Milletia monticola Kur.*.
Distrib. Burmah.
56. *Derris thyrsiflora Bth.* (No. 32).
In flower. Fort Lungleh.
Distrib. Eastern Himalaya ; Khasia Hills ; Malaya.
57. *Cassia timorensis D. C.* (No. 226).
In fruit. Fort Lungleh.
Distrib. Chittagong and Burmah ; Malaya ; Western
India ; Ceylon ; Philippines ; Australia.
58. *Bauhinia rufa Grah.* (No. 136).
In fruit. Fifteen miles S. E. of Lungleh.
Distrib. Assam ; Burmah.
59. *Bauhinia glauca Wall.*
In fruit, Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Burmah ; Malaya ; China.
A decided northward extension of this species.
60. *Saraca indica Linn.* (No. 213).
In flower. Between Ridge Camp and Lungsins. Alt.
2,000-2,500 feet.
Distrib. Central and Eastern Himalaya ; Khasia hills ;
Assam ; Chittagong and Burmah ; South and West
India ; Ceylon ; Malaya.
61. *Entada Purshætha D. C.* (No. 90).
Entada scandens of the Flora of British India
In flower. Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Nepal ; Sikkim ; Khasia hills ; Naga hills ;
Manipur ; Assam ; Chittagong and Burmah ; And-
amans ; Malaya ; South and West India ; Ceylon.

62. *Acacia Intsia Willd.* (No. 79). Var. *oxyphylla*. In fruit.
Fort Lungleh.
Distrib. Tropical Himalaya ; South and West India ;
Assam ; Chittagong and Burmah ; Malaya ; Ceylon.
63. *Acacia pennata Willd.* var. *arrophula* (No. 106).
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Nepal ; Sikkim ; Khasia hills ; Assam ;
Chittagong and Burmah ; Andamans ; Malaya ;
Central India.
64. *Acacia pruinascens Kurz.* (No. 121).
In fruit. Fort Lungleh.
Distrib. Kachin hills ; Upper Assam.
65. *Albizia stipulata Boiv.* (No. 124).
In flower. Fort Lungleh.
Distrib. North-West Himalaya ; Nepal ; Sikkim ;
Khasia hills ; Naga hills ; Chittagong and Burmah ;
Andamans ; South and West India ; Ceylon ; Malaya ;
Borneo ; Java.

XXIV. ROSACEÆ.

66. *Rubus moluccanus Linn.* (No. 21).
In flower Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Assam ; Chin
hills ; South and West India and Ceylon ; Manipur ;
Burmah ; Malaya.
67. *Rubus ellipticus Smith* (No. 62).
In fruit. Fort Lungleh.
Distrib. North-West Himalaya ; Nepal ; Sikkim ; Khasia
hills ; Kachin hills ; Manipur ; Assam ; Burmah ,
Yunnan ; South-West India ; Ceylon.
68. *Rubus lasiocarpus Smith* (No. 58).
In flower. Fort Lungleh.
Distrib. North-West Himalaya ; Sikkim ; Naga hills ;
Assam ; Chin hills ; Burmah ; South and West India ;
Ceylon ; Java.

69. *Rubus rosæfolius* *Smith* (Nos. 30 and 51).
 In fruit. Fort Lungleh.
 Distrib. North-West Himalaya ; Sikkim ; Khasia hills ;
 Naga hills ; Assam ; Burmah ; Java.
70. *Eriobotrya bengalensis* *Hook. f.* (No. 155).
 In fruit. Fifteen miles South-East of Lungleh.
 Distrib. Sikkim ; Khasia hills , Manipur , Chittagong
 and Burmah ; Malacca.

XXV. RHIZOPHOREÆ.

71. *Caralia integerrima* *D. C.* (No. 57).
 In flower. Fort Lungleh.
 Distrib. Sikkim Terai ; Bengal ; Silhet ; Cachar ;
 Khasia hills ; Manipur ; Assam ; Chittagong and
 Burmah , Andamans ; South-West India ; Ceylon ;
 Malaya.

XXVI. COMBRETACEÆ.

72. *Calycopteris floribunda* *Lamk.* (No.—)
 In fruit. Demagiri. Alt. 500 feet.
 Distrib. Assam ; Chittagong and Burmah ; Andamans ;
 South and West India ; Malaya.
73. *Anogeissus acuminata* *Wall.* (No. 109). var. *lanceolata*.
 In fruit. Fort Lungleh.
 Distrib. Chittagong and Burmah.
74. *Combretum squamosum* *Roxb.* (Nos. 110 and 111).
 In fruit. Fort Lungleh.
 Distrib. Nepal ; Sikkim ; Khasia hills ; Assam ;
 Chittagong and Burmah ; Malay ; Philippines.
75. *Combretum dasystachyum* *Kurz* (No. 187).
 In flower. Fort Lungleh.
 Distrib. Khasia hills ; Cachar ; Silhet ; Chittagong
 and Burmah.

XXVII. MYRTACEÆ.

76. *Eugenia polypetala* Wight. No—).
In flower. Demagiri. Alt. 500 feet.
Distrib.

XXVIII. MELASTOMACEÆ.

77. *Melastoma normale* Don. (No. 73)
In flower. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Bhotan ; Khasia hills ; Naga hills ; Kachin hills ; Burmah ; Indo-China.
78. *Sonerila maculata* Roxb. (No. 259).
Leaf specimen. Fort Lungleh.
Distrib. Nepal ; Khasia hills ; Assam ; Kachin hills ; Burmah.
79. *Medinilla rubicunda* Bl. (No. 25).
In fruit. Fort Lungleh.
Distrib. Sikkim , Khasia hills , Assam , Malaya.

XXIX. LYTHRACEÆ.

80. *Duabunga sonneratioides* Ham. (No. 72).
In flower and fruit. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills , Assam ; Chittagong and Burmah ; Andamans ; Malaya.

XXX. CUCURBITACEÆ.

81. *Hodgsonia heterocarpa* Hook. f. (No. 101).
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Sikkim ; Khasia hills ; Assam ; Chittagong and Burmah ; Malaya.

82. *Thladiantha calcarata* C. B. Clarke (No. 210).
In flower. Between Ridge camp and Lungsin. Alt. 2,000 feet.
Distrib. Sikkim ; Khasia hills ; Assam ; Chittagong and Burmah ; Malaya ; China.

XXXI. BEGONIACEÆ.

83. *Begonia barbata* Wall. (Nos. 232 and 233).
In flower and fruit. Fort Lungleh.
Distrib. Assam ; Burmah ; Chittagong.

XXXII. UMBELLIFERÆ.

84. *Hydrocotyle javanica* Thunb. (No. 234).
In fruit. Between Tuichong and Demagiri. Alt. 500-1,000 feet.
Distrib. Throughout South-Eastern Asia and in Eastern Africa.

XXXIII. ARALIACEÆ.

85. *Heptapleurum venulosum* Seem (No. 175), var. *macrophylla*.
In fruit. Fort Lungleh.
Distrib. Throughout tropical and subtropical India ; Malaya ; Australia.
86. *Trevesia palmata* Vis. (No. 222).
In fruit. Demagiri. Alt. 500 feet.
Distrib. Nepal ; Sikkim ; Khasia hills ; Assam ; Chittagong and Burmah ; Malaya.
87. *Brassaiopsis Speciosa* Don. and Planch. (No. 156).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Naga hills ; Assam ; Chittagong and Burmah ; Java.

Corollifloræ.

XXXIV. RUBIACEÆ.

88. *Uncaria sessilifructus Roxb.* (Nos. 11 and 223).
In fruit. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Bhotan ; Khasia hills ;
Assam ; Kachin hills ; Chittagong and Burmah ; Indo-
China.
89. *Uncaria homomalla Miq.* (No. 28).
In flower. Fort Lungleh.
Distrib. Khasia hills ; Sumatra.
90. *Wendlandia glabrata D. C.* (No. 34).
In flower. Fort Lungleh.
Distrib. Khasia hills ; Naga hills ; Manipur ; Burmah ;
Yunnan ; South India ; Malaya ; Formosa.
91. *Hedyotis scandens Roxb.* (No. 48).
In fruit. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Akha hills ;
Kachin hills ; Chittagong.
92. *Ophiorrhiza Harrisiiana Heyne*, var. *argentea*. (No. 183).
In flower. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Silhet ; Kachin
hills ; Chittagong ; South and West India ; Ceylon.
93. *Mussaenda glabra Vahl.* (No. 186).
In flower. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Manipur ;
Cachar ; Assam ; Chittagong and Burmah ; Malaya.
94. *Mussaenda macrophylla Wall.* (No. 277).
In flower. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia ; Burma ; Andamans ;
Malaya.
95. *Adenotacme longifolia Wall.* (No. 150).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. North-Western Himalaya ; Sikkim ; Khasia
hills ; Duplia hills ; Cachar ; Manipur ; Chittagong
and Burmah ; Malaya.



96. *Randia longiflora* Lamk. (No. 235).
In flower. Between Ridge camp and Lungsin. Alt.
circa 2,500 feet.
Distrib. Khasia hills ; Silhet ; Assam ; Chittagong and
Burmah ; Andamans ; Malaya.
97. *Ixora subsessilis* Wall. (No. 145).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Assam ; Khasia hills ; Naga hills ; Manipur.
98. *Ixora villosa* Roxb. (No. 236).
In flower. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Silhet ; Cachar ; Assam ;
Burmah ; Malaya.
99. *Pavetta indica* Linn. (Nos. 82 and 176).
In flower. Fort Lungleh.
Distrib. Throughout India, Ceylon and Malaya ; South
China ; North Australia.
100. *Morinda angustifolia* Roxb. (No. 39).
In flower. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Assam ; Chitta-
gong and Burmah.
101. *Psychotria calocarpa* Kurz (No. 169).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Cachar ; Assam ;
Kachin hills ; Chittagong and Burmah.

XXXV. COMPOSITÆ.

102. *Vernonia blanda* D. C. (No. 13).
In fruit. Fort Lungleh.
Distrib. Khasia hills ; Manipur ; Burmah.
103. *Ageratum conyzoides* Linn. (No. 165).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Throughout India.

104. *Conyza stricta* Willd. (No. 88).
In flower. Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. North-Western Himalaya ; Sikkim ; Khasia hills ; Assam ; Chittagong and Burmah ; South and Western India ; East Africa.
105. *Blumea lacera* D. C. (No. 89).
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Throughout India and Ceylon ; Malaya ; China ; Tropical Africa.
106. *Blumea densiflora* D. C. (No. 98).
In fruit, Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Sikkim ; Khasia hills ; Naga hills ; Duphla hills, Burmah ; Yunnan and Malaya.
107. *Blumea balsamifera* D. C. (No.—).
In flower. Bank of Karnaphuli river. Alt. 500 feet.
Distrib. Nepal ; Sikkim ; Khasia hills ; Kachin hills ; Assam ; Burmah ; China , Indo-China ; Malaya.
108. *Laggera pterodonta* Bth. (No.151).
In fruit, Fifteen miles South-East of Lungleh.
Distrib. North-Western Himalaya ; Sikkim ; Khasia hills ; Manipur ; Burmah ; South and Western India . Tropical Africa.
109. *Gnaphalium luteo-album* Linn. (No.—).
In flower. Fifteen miles South-East of Lungleh.
Distrib. Throughout the tropics.
110. *Siegesbeckia orientalis* Linn. (No. 162).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Cosmopolitan in the tropics.
111. *Bidens pilosa* Linn. (No. 86).
In flower. Helio hill, near Lungleh. Alt. 3,700 feet)
Distrib. General throughout the tropics.

XXXVI. CAMPANULACEÆ.

112. *Campanumœa celebica* *Blume* (No. 202).
 In flower and fruit. Between Lungleh and Ridge camp.
 Alt. 3,000 feet.
 Distrib. Sikkim ; Chittagong ; Burmah and Malaya.

XXXVII. MYRSINÆ

113. *Maesa indica* *Wall.* (No. 2).
 In flower and fruit. Fort Lungleh.
 Distrib. Throughout India and Ceylon ; Malaya ; South-China.
114. *Maesa paniculata* *A. D. C.* (No. 22).
 In flower. Fort Lungleh.
 Distrib. Silhet ; Assam ; Burmah.
115. *Myrsine semi-serrata*. *Wall.* (No. 93).
 In fruit. Helio hill ; Lungleh ; Alt. 3,700 feet.
 Distrib. North-Western Himalaya ; Nepal ; Sikkim ; Khasia hills ; Manipur ; Burmah.
116. *Embelia Ribes* *Burm.* (No. 122).
 In fruit. Fort Lungleh.
 Distrib. Throughout India and Ceylon ; Malaya ; South China.
117. *Ardisia paniculata* *Roxb.* (No. 66).
 In flower. Demagiri. Alt. 1,000 feet.
 Distrib. Khasia hills ; Assam ; Chittagong.
118. *Ardisia colorate* *Roxb.* (No. 237).
 In fruit. Between Ridge camp and Lungsins. Alt. 2,500 feet.
 Distrib. Assam ; Cachar ; Chittagong ; Burmah and Malaya.
119. *Antistrophe oxantha* *A. D. C.* (No. 143).
 In fruit. Fifteen miles South-East of Lungleh.
 Distrib. Sikkim ; Khasia hills ; Garo hills and Silhet.

XXXVIII. STYRACEÆ.

120. *Symplocos* sp. near Hookerl. *C. B. O.* (No. 239).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Collected by Gallatly in Tenasserim in 1877.
121. *Styrax serrulatum* Roxb. Var. *agrestis*. (No. 238).
In bud. Fifteen miles South-East of Lungleh.
Distrib. Sikkim, Khasia hills, Chittagong, Burmah, South India.

XXXIX. OLEACEÆ

122. *Jasminum coarctatum* Roxb. (No. 175).
In flower. Fort Lungleh.
Distrib. Khasia hills, Diphla hills, Assam, Chittagong, Burmah.
123. *Jasminum anastomosans* wall. (No. 49).
In flower. Fort Lungleh.
Distrib. Bhotan, Khasia hills, Naga hills, Cachar, Silhet, Manipur, Kachin hills, Burmah.
124. *Jasminum Listeri* King. *Mss. in herb. Calc.* (No. 78).
In flower. Fort Lungleh.
Collected by Lister in Chittagong hill tracts in 1876.
Scandent shrub, branches pale brown glabrous, branchlets faintly pubescent. Leaves opposite, simple, petiole $1\frac{1}{2}$ " , lamina 3" to 5" by $1\frac{1}{4}$ " , lanceolate acuminate, base cuneate, glabrous above, faintly pubescent on nerves beneath, main nerves 4 to 5, prominent beneath. Cymes rather lax, axillary, capitate, pubescent, much shorter than the leaves, 5 or 6 flowers in each cyme. Peduncles $\frac{1}{8}$ " , pedicels $\frac{1}{4}$ ". Bracts subulate, minute, 2 to 3 pairs, pedicels and calyx slightly villose, calyx teeth subulate, faintly lilous $\frac{3}{8}$ " corolla white, lobes six, tube $\frac{3}{8}$ " , lobes $\frac{1}{8}$ " , anthers two, in the throat of the corolla, on very short filaments, anthers oblong,

aristate. Ovary 2-celled, style cylindric, stigma, bifid, lobes linear, ovules 2 in each cell.

This is a very distinct and pretty species, and would appear to come between *Jasminum undulatum* Ker and *J. pubescens* Willd. of the Flora of British India.

125. *Ligustrum robustum* Bl. (No. 99).

In fruit. Helio hill, Lungleh. Alt. 3,700 feet.

Distrib. Sikkim ; Khasia hills ; Chittagong ; Burmah ; Malaya.

XL. APOCYNACEÆ.

126. *Melodinus monogynus* Roxb. (No. 240).

In flower. Fort Lungleh.

Distrib. Sikkim ; Khasia hills ; Duphla hills ; Silhet ; Assam ; Malaya.

127. *Melodinus* sp. (Nos. 17 and 154).

In fruit. Fort Lungleh.

Not matched in Herb. Calc.

128. *Tabernaemontana coronaria* Br. (No. 199).

In flower. Between Lungleh and Ridge camp. Alt. 3,000 feet.

Distrib. Throughout India.

129. *Anodendron paniculatum* A. D. C. (Nos. 81 and 97).

In flower and fruit. Fort Lungleh.

Distrib. Khasia hills ; Duphla hills ; Silhet ; Chittagong ; Burmah ; South and West India ; Ceylon ; Java ; Philippines.

XLI. ASCLEPIADACEÆ.

130. *Gymnema* sp. (No. 74).

In flower. Fort Lungleh.

No matched in Herb. Calc.



XLI. LOGANIACEÆ.

131. *Buddleia asiatica* *Lour.* (No.—).
Common everywhere.
Distrib. Throughout ; India ; Malaya ; Indo-China ;
China.

XLIII. BORAGINÆÆ.

132. *Ehretia Wallichiana* *Hook. f. and T.* (Nos. 84 and 184).
In flower and fruit. Fort Lungleh.
Distrib. Sikkim ; Bhotan : Assam ; Khasia hills.
133. *Tournefortia Roxburghii* *C. B. Clarke* (No. 181).
In fruit. Fort Lungleh.
Distrib. Chittagong hill tracts.
134. *Heliotropium indicum* *Linn.* (No.—).
Common. In flower and fruit.
Distrib. Throughout India ; Malaya , East Asia ;
Tropical Africa ; Tropical America.

XLIV. CONVOLVUVACEÆ.

135. *Ipomœa kingii* *Prain.* (No. 76).
In flower and fruit, Fort Lungleh.
Distrib. Sikkim ; Bhotan ; Khasia ; Assam ; Burmah.
136. *Ipomœa vitifolia* *Sweet.* (No. 241).
In fruit. Demagiri. Alt. 1,000 feet.
Distrib. Throughout India ; Ceylon and Malaya.

XLV. SOLANACEÆ.

137. *Solanum torvum* *Swarix.* (No. 242).
In flower. Fort Lungleh.
Distrib. Throughout India ; Indo-China ; China ;
Malaya ; Tropical America.
138. *Solanum indicum* *Linn.* (No. 91).

- In fruit. Helio hill, Lungleh. Alt. 3,700 feet.
 Distrib. Throughout India ; Indo-China ; Malaya.
139. *Datura fastuosa* Linn. (No. 1).
 In flower. Fort Lungleh.
 Distrib. Throughout India ; Malaya ; Tropical Africa.
140. *Nicotiana Tabacum* Linn. (No.—).
 Common. In flower. Throughout India.

XLVI. SCROPHULARINEÆ.

141. *Mazus rugosus* Lour. (No. 164).
 In flower. Fort Lungleh.
 Distrib. Afghanistan ; North-West Himalaya ; Sikkim ;
 Bhotan ; Khasia hills ; Assam ; Chittagong ; Burmah ;
 Malaya ; China ; Japan ; Philippines,
142. *Lindenbergia philippensis* Benth. (No. 244).
 In fruit. Demagiri, Alt. 1000 feet.
 Distrib. Naga hills ; Shan hills ; Chittagong ; Burmah ;
 Indo-China ; China.
143. *Torenia vagans* Roxb. (No. 243).
 In flower. Fort Lungleh.
 Distrib. Nepal ; Sikkim ; Khasia hills ; Assam ;
 Kachin hills ; Chittagong.

XLVII. GESNERACEÆ.

144. *Aeschynanthus*. sp (No. 130).
 In fruit. Sect. haplotrichium.
 Fifteen miles South-East of Lungleh. Not matched in
 Herb. Calc.

XLVIII. BIGNONIACEÆ.

145. *Oroxylum indicum* Vent. (No.—).
 Only fruit gathered. Fort Lungleh.
 Distrib. Throughout India ; Indo-China ; Malaya.

146. *Stereospermum glandulosum* Mig. (No. 153).
In flower and young fruit. Fifteen miles South-East
of Lungleh.
Distrib. Burmah ; Malaya.

XLIX. ACANTHACEÆ

147. *Thunbergia grandiflora* Roxb. (No. 211).
In flower. Between Ridge camp and Lungsin. Alt.
2,500 feet.
Distrib. East Bengal ; Assam ; Manipur ; Kachin
hills ; Chittagong hill tracts.
148. *Hemigraphis hirta* T. And. (No. 251).
In flower and fruit. Fort Lungleh.
Distrib. North-Western Provinces , Bengal , Central
Provinces ; Pegu.
149. *Acanthus leucostachyus* Wall. (No. 141).
In flower. Fifteen miles South-East of Lungleh.
Distrib. Khasia hills ; Duphla hills ; Cachar ,
Manipur ; Kachin hills , Chittagong hill tracts.
150. *Eranthemum album* Nees (No. 64).
In flower. Fort Lungleh.
Distrib. Jaboca Naga hills ; Assam , Chittagong ;
Burmah ; Andamans ; Nicobars.
151. *Phlogacanthus tubiflorus* Nees (No. 6).
In fruit. Fort Lungleh.
Distrib. Khasia hills ; Duphla hills ; Manipur ;
Kachin hills.
152. *Phlogacanthus guttatus* Nees (No. 190).
In fruit. Fort Lungleh.
Distrib. Khasia hills , Jaboca Naga hills ; Chittagong
hill tracts.

153. *Lepidagathis hyalina* Nees (No. 250).
In fruit. Demagiri. Alt. 1,000 feet.
Distrib. Throughout North India ; Assam ; Chittagong ; Burmah ; Indo-China ; China.
154. *Rhinacanthus calcaratus* Nees (No. 11).
In flower. Fort Lungleh.
Distrib. Khasia hills ; Cachar ; Chittagong hill tracts.
155. *Rungia parviflora* Nees var. *muralis*. (No. 134).
In flower. Fifteen miles South-East of Lungleh.
Distrib. of the variety. South India ; Chittagong hill tracts.
156. *Dicliptera Roxburghiana* Nees var. *linearis* Kurz in Herb. Calc. (No. 135).
In flower. Fifteen miles South-East of Lungleh.
Collected by Kurz in Pegu.
157. *Peristiophe fera* C. R. Clarke. (No.—).
In flower. Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Bhotan ; Assam ; Khasia.

L. VERBENACEÆ.

158. *Gmelina arborea* Roxb. (No. 248).
In flower. Fort Lungleh.
Distrib. South-Eastern Asia.
159. *Clerodendron infortunatum* Gertn. (No. 107).
In flower and fruit. Fort Lungleh.
Distrib. India ; Indo-China ; Malaya.
160. *Caryopteris paniculata* C. B. Clarke. (No. 148).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Nepal ; Mismi hills ; Kachin hills ; Upper Burmah ; Yunnan.



LI. LABIATÆ.

161. *Pogostemon parviflorus* Bth. (No. 10).
 In fruit. Fort Lungleh.
 Distrib. North-West Hinalaya ; Sikkim ; Bhotan ;
 Khasia hills ; Silhet ; Assam ; Chittagong ; Burmah ;
 Andamans ; South and West India.
162. *Pogostemon glaber* Bth. (No. 247).
 In fruit. Fifteen miles South-East of Lungleh.
 Distrib. Nepal ; Sikkim ; Khasia hills ; Kachin hills ;
 Upper Burmah.
163. *Pogostemon fraternus* Miq. No. 245).
 In fruit. Fort Lungleh.
 Distrib. Sikkim ; Khasia hills ; Naga hills ; Manipur ;
 Upper Burmah ; Java.
164. *Ajuga macrosperma* Wall. var. *typica*. (No. 246).
 In flower. Fort Lungleh.
 Distrib. of the variety. Khasia hills ; Naga hills ;
 Assam ; Chittagong and Burmah.

LII. PLANTAGINEÆ.

165. *Plantago major* Linn. (No. 63).
 In fruit. Fort Lungleh.
 Distrib. Throughout India in hilly regions ; Ceylon ;
 Malaya ; Afghanistan and westwards.

Incomplete.

LIII. AMARANTACEÆ.

166. *Amarantus viridis* Linn. (No. 268).
 In flower. Fort Lungleh.
 Distrib. Throughout tropical countries.

167. *Aerua scandens* Wall. (No. 137).
 In fruit. Fifteen miles South-East of Lungleh.
 Distrib. Throughout the tropics of the Old World.

LIV. POLYGONACEÆ.

168. *Polygonum alatum* Ham. (No. 163).
 In fruit. Fifteen miles South-East of Lungleh.
 Distrib. India ; Indo-China ; Japan ; Abyssinia.
 169. *Polygonum chinense* Linn. (No. -).
 In fruit. Fort Lungleh.
 Distrib. South-Eastern Asia.

LV. ARISTOLOCHIACEÆ.

170. *Aristolochia* sp. (No. 24).
 In flower.
 Like Wall. cat. 2705 D in Herb. Calc. But with
 tomentose veins.
 Near Fort Lungleh.

LVI. PIPERACEÆ.

171. *Piper peepuloides* Roxb. (No. 94).
 In flower. Fifteen miles. South-East of Lungleh.
 Distrib. Nepal Sikkim Bhotan ; Assam ; Silhet ;
 Khasia hills ; Chittagong.
 172. *Piper boehmeriaefolium* Wall. (No. 47).
 In flower. Fort Lungleh.
 Distrib. Sikkim Bhotan ; Assam ; Silhet ; Khasia
 hills ; Burmah.

LVII. MYRISTICÆÆ.

173. *Myristica longifolia* Wall. (Nos. 114 and 152).
 In fruit. Near Lungleh.
 Distrib. Sikkim ; Assam ; Silhet ; Khasia hills ;
 Chittagong ; Burmah.

LVIII. LAURINEÆ.

174. *Bellachmidia asamica* Meisn. (No. 171).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Sikkim ; Khasia hills ; Manipur ; Assam.
175. *Cinnamomum Tamala* Fr. Nees (No. 47).
In flower and fruit. Fort Lungleh.
Distrib. Tropical and Sub-Tropical Himalaya ; Silhet ; Khasia ; Assam.
176. *Litsea Salicifolia* Hook. f. (Nos. 3 and 12) var. *attenuata*.
In flower. Fort Lungleh.
Distrib. of the variety. Silhet ; Assam.
177. *Alseodaphne petiolaris*. Hook. f. (No. 75).
In fruit. Fort Lungleh.
Distrib. Assam ; Cachar ; Burmah.

LIX. ELEAGNACEÆ.

178. *Elæagnus latifolia* Linn. (No. 37).
In fruit. Fort Lungleh.
Distrib. North-West Himalaya ; Sikkim ; Bhotan ; Mishmi hills ; Khasia hills ; Chittagong ; Burmah ; South India ; Ceylon ; Malaya ; Indo-China ; China.

LX. EUPHORBIACEÆ.

179. *Euphorbia pilulifera* Linn. (No. 257).
In fruit and flower. Fort Lungleh.
Distrib. Throughout the tropics.
180. *Bridelia stipularis* Bl. (No. 105).
In fruit. Fort Lungleh.
Distrib. Throughout India ; Ceylon ; Malaya ; Philippines ; Tropical Africa.

181. *Phyllanthus reticulatus* Poir. (No. 191).
In flower. Fort Lungleh.
Distrib. Throughout India and Ceylon ; Malaya ;
China ; Tropical Africa.
182. *Breynia patens* Benth. (No. 276).
Female in flower and fruit. Lungleh and Lungsins. Alt.
2,000 to 3,000 feet.
Distrib. Nepal ; Sikkim ; Mishmi hills ; Khasia hills ;
Silhet ; Manipur ; Chittagong ; Burmah ; South India ;
Ceylon.
183. *Cyclostemon assamicus* Hook. f. (No. 182).
In fruit. Fort Lungleh.
Distrib. North-West Himalaya ; Sikkim ; Khasia
hills ; Assam ; Sunderbuns ; Chittagong ; Arracan ;
Andamans.
184. *Aporosa oblonga* Muell. Arg. (No. 194).
In fruit. Fort Lungleh.
Distrib. Burmah ; Chittagong.
185. *Baccaurea sepida* Muell. Arg. (No. 116).
In flower. Fort Lungleh.
Distrib. Sikkim ; Silhet ; Khasia hills ; Assam ;
Burmah ; Andamans ; Malaya.
186. *Antidesma Bunius* Spreng. (No. 170).
In fruit. Fifteen miles South-East of Lungleh.
Distrib. Throughout India and Malaya.
187. *Croton oblongifolius* Roxb. (No. 38).
In fruit. Fort Lungleh.
Distrib. India ; Assam ; Burmah.
188. *Alchornea rugosa*. Muell Arg. (No. 128).
In flower. Fifteen miles South-East of Lungleh.
Distrib. Burmah ; Andamans ; Malaya ; China.
189. *Mallotus Roxburghiana* Muell. Arg. (No. 260).
In flower. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Silhet ; Manipur ;
Assam ; Chittagong ; Burmah.

190. *Ricinus communis* Linn. (No. 125).
In fruit. Fort Lungleh.
Distrib. Throughout the tropics.
191. *Homonoia riparia* Lour. (No. 258).
In flower. Demagiri. Alt. 200 feet.
Distrib. India, Indo-China ; Malaya ; China.
192. *Sapium insigne* Bth. (No. 35).
In fruit. Fort Lungleh.
Distrib. North-West Himalaya Nepal ; Eas
Himalaya ; Chittagong ; Burmah.

LXI. URTICACEÆ.

193. *Ficus subulata* Bl. (Nos. 212 and 254).
Between Ridge Camp and Lungsins. Alt. 2000 feet.
Distrib. From Chittagong southwards to the Malayan
Archipelago ; China.
194. *Ficus urophylla* Wull. (No 14).
Fort Lungleh.
Distrib. Assam, Khasia ; Chittagong ; Burmah ;
Malaya.
195. *Ficus retusa* Linn. var. *nitida* Thunb. (No. 123).
Fort Lungleh.
Distrib. of the variety. Eastern Himalaya ; Assam ;
Khasia hills ; Burmah ; Malaya.
196. *Ficus hispida* Linn. f. (No. 253).
Banks of the Karnaphuli river. Alt. 100-200 feet.
Distrib. Throughout India ; Malaya ; Hong Kong ;
Australia.
197. *Ficus cunia* Horn. (No. 197).
Between Lungleh and Ridge Camp. Alt. 3000 feet.
Distrib. Sub-Himalayan forests ; Central India ;
Assam ; Khasia ; Chittagong ; Burmah ; Malaya.

198. *Ficus hirta* *Vaol.* (No. 142).
Fitteen miles South-East of Lungleh.
Distrib. Eastern Hima'aya ; Assam ; Burmah ;
Malaya ; China.
199. *Ficus pomifera.* *Wall.* (No. 129).
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.
Distrib. Sikkim ; Assam ; Chittagong ; Burmah ;
Malaya.
200. *Allæanthus Kurzii.* *Hook. f.* (No. 53).
Male flowers. Fort Lungleh.
Distrib. Assam and Burmah.
201. *Cudrania fruticosa* *Wight ex Kurz* For. Flor. (No. 19).
In fruit. Fort Lungleh.
Distrib. Khasia hills ; Kachin hills ; Chittagong ;
Burmah.
202. *Artocarpus Lakoocha* *Rorh.* (No. 201).
Between Lungleh and Ridge Camp. Alt. 2,000-3,000
feet. Distrib. Tropical Himalaya ; Burmah ; South
India ; Malaya.
203. *Conocephalus suaveolens* *Bl.* (No. 256).
In flower. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Kachin hills ; Assam ;
Burmah ; Malaya.
204. *Girardinia heterophylla* *Done.* (Nos. 5 and 7).
In fruit. Fort Lungleh.
Distrib. North-West Himalaya ; Sikkim ; Assam ;
Silhet ; Burmah ; Central and South India ; Ceylon ;
Java.
205. *Elatostema sesquifolium* *Hassk.* (No. 55).
In flower. Fort Lungleh.
Distrib. Khasia hills ; Assam ; Chittagong ; Burmah ;
Andamans ; Nicobars ; Java.

206. *Boehmeria malabarica* Wedd. (Nos. 4 and 54).
In flower. Fort Lungleh.
Distrib. Sikkim ; Mishmi hills ; Khasia hills ;
Chittagong ; Burmah ; South and West India ; Ceylon ;
Java.
207. *Sarcochlamys pulcherrima* Gaud. (No. 131).
Leaf specimens only. Fifteen miles South-East of
Lungleh.
Distrib. North-West Himalaya ; Bhotan ; Assam ;
Khasia hills ; Silhet ; Cachar ; Chittagong ; Burmah.

LXII. GNETACEÆ.

208. *Gnetum Gnemon* Linn. (Nos. 269 and 270).
In flower and fruit. Fort Lungleh.
Distrib. Khasia hills ; Kachin hills ; Manipur ;
Malaya.

MONOCOTYLEDONES.

LXIII. ORCHIDACEÆ.

Nearly all the species of orchids in the following list were contributed by Lieut. Bailey from his collection, and consequently bear no field number. All were collected in the Fort Lungleh district, but the exact localities and altitudes had not been noted :—

209. *Oberonia iridifolia* Lindl.
Distrib. India ; Indo-China.
210. *Liparis longipes* Lindl.
Distrib. India ; Indo-China ; China ; Malaya.
211. *Dendrobium cariniferum* Reichb. f.
Distrib. Naga hills ; Manipur ; Shan hills ; Kachin hills.
212. *Dendrobium formosum* Rosb.
Distrib. Nepal ; Sikkim ; Bhotan ; Khasia hills ;
Assam ; Burmah ; Andamans.

213. *Dendrobium anceps Swartz.*
Distrib. Sikkim ; Bengal ; Assam ; Burmah.
214. *Dendrobium bicameratum Lindl.*
Distrib. Sikkim ; Khasia hills ; Behar ; Burmah.
215. *Dendrobium cretaceum Lindl.*
Distrib. Western Himalaya ; Khasia hills ; Kachin hills ; Burmah.
216. *Dendrobium heterocarpum Wall.*
Distrib. Nepal ; Sikkim ; Khasia hills ; Assam ; Burmah ; South India ; Ceylon
217. *Dendrobium transparens Wall.*
Distrib. North-Western Himalaya ; Sikkim ; Khasia hills ; Garo hills ; Assam ; Kachin hills.
218. *Dendrobium crepidatum Lindl.*
Distrib. Khasia hills ; Assam ; Burmah ; West India.
219. *Dendrobium pendulum Roxb.*
Distrib. Chittagong ; Burmah ; Siam.
220. *Dendrobium Devonianum Post.*
Distrib. Bhotan ; Khasia Hills ; Naga Hills ; Assam ; Burmah.
221. *Dendrobium fimbriatum Hook. var. oculata.*
Distrib. of species. North-West Himalaya ; Sikkim ; Khasia hills ; Manipur ; Burmah.
222. *Dendrobium Gibsoni Lindl.*
Distrib. Sikkim ; Assam ; Khasia hills ; Burmah.
223. *Dendrobium chrysanthum Wall.*
Distrib. Nepal ; Sikkim ; Khasia hills ; Shan hills ; Kachin hills.
224. *Dendrobium ocbreatum Lindl. (No. 214).*
In flower. Fort Lungleh.
Distrib. Naga-hills ; Khasia hills ; Chittagong.
225. *Dendrobium aggregatum Roxb.*
Distrib. Assam ; Burmah.

226. *Dendrobium chrysotoxum* Lindl. (No. 197).
In flower.: Fort Lungleh. ;
Distrib. Burmah ; Assam.
227. *Bulbophyllum Lobbiai* Lindl. (No. 179).
In flower. Fort Lungleh.
Distrib. Burmah ; Siam ; Java.
228. *Cirrhopetalum picturatum* G. Lodd.
Distrib. Burmah.
229. *Eria convallarioides* Lindl.
Distrib. North-Western Himalaya ; Sikkim ; Khasia hills ; Naga hills ; Burmah.
230. *Eria pancea* Lindl.
Distrib. Sikkim ; Khasia hills ; Kachin hills ; Burmah ; Malaya.
231. *Eria bambusifolia* Lindl.
Distrib. Sikkim ; Khasia hills ; Kachin hills ; Southern India.
232. *Eria tomentosa* Hook. f. (No. 228).
In flower. Fort Lungleh.
Distrib. Silhet ; Khasia hills ; Chittagong ; Burmah ;
233. *Phajus macularius* Lindl.
Distrib. Nepal ; Sikkim ; Khasia hills ; Indo-China ; Japan.
234. *Phajus albus* Lindl.
Distrib. North-West Himalaya ; Nepal ; Sikkim , Khasia hills ; Kachin hills ; Burmah ; Southern India Indo-China.
235. *Oclogyne Gardneriana* Lindl.
Distrib. Himalaya ; Assam hills ; Karen hills.
236. *Oclogyne graminifolia* Pw. and Reichb. f.
Distrib. Assam ; Tenasserim ; Kachin hills.
237. *Oclogyne fuscescens* Lindl.
Distrib. Nepal ; Sikkim ; Khasia hills.

238. *Cœlogyne ovalis* Lindl.
Distrib. North-Western Himalaya ; Sikkim ; Khasia hills.
239. *Cœlogyne elata* Lindl.
Distrib. North-Western Himalaya ; Nepal ; Sikkim ; Bhotan ; Assam ; Burmah.
240. *Cœlogyne maculata* ? Lindl.
Distrib. Nepal ; Sikkim ; Bhotan ; Khasia hills.
241. *Pholidata imbricata* Lindl. (No. 229).
Fort Lungleh.
Distrib. Himalaya ; Assam ; Burmah ; Andamans.
242. *Philedota advena* ? Richb. f.
Distrib. Burmah.
243. *Pholidota Convallarriæ* Hook. f. (No. 195).
Fort Lungleh.
Distrib. Khasia hills ; Naga hills ; Burmah.
244. *Pholidata rubra* Lindl.
Distrib. Sikkim ; Khasia hills ; Kachin hills ; Upper Burmah.
245. *Cymbidium lancifolium* Hook.
Distrib. Nepal ; Sikkim ; Mishmi hills ; Khasia hills ; Indo-China ; Japan ; Malaya.
246. *Cymbidium pendulum* Swartz.
Distrib. Sikkim ; Bengal ; Assam ; Burmah ; Andamans ; Southern India ; Malaya.
247. *Phalanopsis Cornu cervi*, Pur and Reichb. f.
Distrib. Burmah ; Malaya.
248. *Aerides Fieldingii* Lodd.
Distrib. Sikkim ; Assam ; Kachin hills.
249. *Aerides odoratum* Lour.
Distrib. Nepal ; Sikkim ; Kachin hills ; Silhet ; Chittagong ; Burmah ; South India ; Indo-China ; China ; Malaya.
250. *Renanthera inschootiana* Rolfe (No. 230).
Fort Lungleh.
Distrib. Assam.

251. *Vanda teres* *Lindl.*
Distrib. Bengal ; Assam ; Burmah ; Andamans.
252. *Vanda corulea* *Griff.*
Distrib. Khasia and Jyntea hills.
253. *Saccolabium papillosum* *Lindl.*
Distrib. Eastern Himalaya ; Assam ; Lower Bengal ;
Burmah.
254. *Sarcanthus appendiculatus*. *Hook. f.*
Distrib. Sikkim ; Assam ; Burmah.
255. *Oleisostoma bicuspidatum*. *Hook. f.*
Distrib. Sikkim ; Khasia ; Tenasserim.
256. *Onithochilus fuscus*. *Wall.*
Distrib. Sikkim ; Bhotan ; Khasia ; Assam ; Kachin
hills ; Burmah.
257. *Cypripedium villosum*. *Lindl. var. Boxalli.*
Distrib. Shan hills ; Kachin hills ; Moulmein.

LXIV. SCITAMINEÆ.

258. *Hemiorchis burmanica* *Kurz.* (No. 207).
In flower.. Between Ridge Camp and Lungsin. Alt.
2,000 feet.
Distrib. Khasia hills ; Burmah.
259. *Hedychium villosum* *Wall.* (No. 120).
In flower. Fort Lungleh.
Distrib. Silhet ; Assam ; Khasia hills ; Miki hills ;
Naga hills ; Manipur ; Burmah.
260. *Curcuma zedoaria* *Roscoe.* (No. 206).
In flower. Between Ridge Camp and Lungsin. Alt.
2,000 feet.
Distrib. Bengal ; Khasia ; Assam ; Chittagong ; South
and Central India ; Malaya.
261. *Amomum dealbatum* *Roxb.* (No. 173).
In flower. Fifteen miles South-East of Lungleh. Alt.
3,000 feet.

Distrib. Sikkim ; Bengal ; Khasia hills ; Silhet ; Naga hills ; Assam ; Chittagong ; Burmah.

262. *Alpinia malaccensis* Roscoe. (No. 115).

In flower. Fort Lungleh.

Distrib. Sikkim ; Khasia hills ; Assam ; Chittagong ; Burmah ; South India ; Malaya.

LXV. AMARYLLIDÆ.

263. *Curculigo recurvata* Dryand. (No. 218).

In flower. Fort Lungleh.

Distrib. Nepal ; Sikkim ; Bengal ; Assam ; Chittagong ; Burmah ; Ceylon ; Malaya ; China ; Australia.

LXVI. DIOSCOREACEÆ.

264. *Dioscorea glabra* Roxb. (No. 252).

In fruit. Demagiri. Alt. 500 feet.

Distrib. North-West Himalaya ; Nepal ; Sikkim ; Bengal ; Burmah ; Malaya ; South India.

265. *Dioscorea bulbifera* Linn. (No. —).

Grown from a tuber gathered near Fort Lungleh.

LXVII. LILIACEÆ.

266. *Smilax lanceæfolia* Roxb. (No. 45).

In young fruit. Fort Lungleh.

Distrib. Sikkim ; Khasia hills ; Naga hills ; Kachin hills ; Manipur ; Burmah.

267. *Smilax Roxburghiana* Wall. (No. 149).

In fruit. Fifteen miles South-East of Lungleh. Alt. 3,000 feet.

Distrib. North-West Himalaya ; Sikkim ; Silhet ; Cachar ; Khasia hills ; Kachin hills.

268. *Dracena ensifolia* Wall. (No. 144).
 In flower. Fifteen miles South-East of Lungleh. Alt.
 3,000 feet.
 Distrib. Bhotan ; Duphla hills ; Silhet ; Assam ;
 Khasia hills ; Naga hills ; Cachin hills ; Burmah.
269. *Dracena terniflora* Roxb. (No. 263).
 In flower. Between Ridge Camp and Lungsin. Alt.
 2,000 feet
 Distrib. Silhet ; Cachar ; Khasia hills ; Manipur ;
 Chittagong ; South India.

LXVIII. COMMELINACEÆ.

270. *Commelina nudiflora* Linn. (264).
 In flower. Between Linchong and Demagiri. Alt.
 500-1,000 feet.
 Distrib. Cosmopolitan in the tropics

LXIX. PALMEÆ.

271. *Pinanga gracilis* Bl. (Nos. 117 and 118).
 In fruit Fort Lungleh.
 Distrib. Sikkim ; Bhotan ; Khasia hills ; Assam
 Chittagong ; Burmah.
272. *Caryota urens* Roxb. (No. 56).
 In leaf only. Fort Lungleh.
 Distrib. Throughout the hotter parts of Asia.
273. *Licuala peltata* Roxb. (No. 262).
 In flower. Fort Lungleh.
 Distrib. Sikkim, Khasia ; Assam ; Silhet ; Burmah.
 Andamans.
274. *Calamus tenuis* Roxb. (No. 261).
 In leaf. Fort Lungleh.
 Distrib. Tropical Himalaya ; Bengal ; Assam ; Silhet
 Chittagong ; Burmah ; Indo-China.

LXX. AROIDEÆ.

275. *Steudnera* sp. (No. 267).
In flower. Between Ridge Camp and Lungsins. Alt.
1,000 feet.
276. *Alocasia fallax* Schott (No. 50).
In flower. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Burmah.
277. *Rhaphidophora calophyllum* Schott (No. 15).
In flower. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Burmah.
278. *Rhaphidophora Hookeri* Schott (No. 67).
In flower. Fort Lungleh.
Distrib. Sikkim ; Duphla hills ; Khasia hills ; Garo
hills ; Chittagong ; Manipur ; Upper Burmah.
279. *Rhaphidophora glauca* Schott (No. 266).
In flower. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Bhotan ; Duphla hills ;
Khasia hills ; Naga hills ; Manipur.
280. *Rhaphidophora decursiva* Schott (No. 68).
In flower. Fort Lungleh.
Distrib. Sikkim ; Khasia hills ; Upper Burmah ; South
India ; Ceylon.
281. *Pothos scandens* Linn. (No. 265).
In flower. Helio hills, Lungleh. Alt. 3,700 feet.
Distrib. India ; Indo-China ; Malaya ; China.
282. *Pothos Cathcarti* Schott (No. 83).
In flower. Fort Lungleh.
Distrib. Nepal ; Sikkim ; Khasia hills ; Naga hills ;
Assam ; Kachin hills ; Burmah.

LXXI. CYPERACEÆ.

283. *Kyllinga monocephala* Roth. (No. 278).
Between Lungleh and Ridge Camp. Alt. 3,000 feet.
Distrib. Throughout India and the Old World tropics.

284. *Cyperus diffusus* Vahl. (No. 167).
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.
Distrib. Throughout the tropics.
285. *Scleria sumatrensis* Retz. (No.—).
Between Ridge Camp and Lungsin. Alt. 2,000-3,000 feet.
Distrib. Bengal ; Chittagong hill tracts ; South India ; Ceylon ; Malaya ; Nicobars ; Java.

LXXII. GRAMINEÆ.

The following species are only those which have been as yet worked out from the collection, and do not represent it completely :—

286. *Panicum sarmentosum* Roxb. (No. 166).
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.
Distrib. Assam ; Silhet ; Cachar ; Khasia ; Chittagong ; Burmah ; Indo-China ; China.
287. *Panicum plicatum* Lamk. (No. 279).
Between Lungleh and Ridge Camp. Alt. 3,000 feet.
Distrib. North-Western Himalaya ; Sikkim ; Shan hills ; South India ; Ceylon ; Malaya ; China.
288. *Panicum pilipes* Nees. and Arnott. (No. 133).
Fifteen miles South-East of Lungleh. Alt. 3000 feet.
Distrib. Sikkim Terai ; Khasia hills ; Burmah ; Central and South India ; Ceylon ; Nicobars ; Malaya ; Indo-China ; Madagascar ; Australia.
289. *Thysanotana agrostis* Nees. (No. 281).
Fifteen miles South-East of Lungleh. Alt. 3000 feet.
Distrib. North-West Himalaya ; Sikkim ; Khasia hills ; Behar ; South India ; Burmah ; Nicobars ; Malaya.
290. *Imperata arundinacea* Cyrill. (No. 208).
Between Ridge Camp and Lungsin. Alt. 2,500 feet.
Distrib. Cosmopolitan in the tropics.

291. *Pogonatherum crinitum Trin.* (No. 280).
Between Ridge Camp and Lungsins. Alt. 2500 feet.
Distrib. Throughout India and Malaya ; China ; New
Hebrides.

LXXIII. LYCOPODIACEÆ.

292. *Lycopodium setaceum Ham.*
Fort Lungleh.
Distrib. Himalayas ; Nilgherries , Ceylon ; Borneo.

LXXIV. SELAGINELLACEÆ.

293. *Selaginella caulescens Spreng.*
Between Ridge Camp and Lungsins. Alt. 2,000 feet.
Distrib. India ; Ceylon ; Indo-China ; Malaya ; China ;
Japan ; Philippines ; New Guinea.
294. *Selaginella Wallichii Spreng.*
Between Ridge Camp and Lungsins. Alt. 2,000 feet.
Distrib. Eastern Himalaya ; Malaya ; Philippines ;
New Guinea.

LXXV. FILICES.

295. *Davallia polypodioides Don.* var. *strigosa* of C. B.
Clarke's Ferns of Northern India.
Fort Lungleh.
Distrib. North-West Himalaya ; Nepal ; Sikkim ;
Khasia ; Chittagong ; Assam ; South India ; Malaya ;
China ; Japan ; Polynesia ; Tropical America.
296. *Onychium auratum Kaulf.*
Fort Lungleh.
Distrib. Nepal ; Sikkim ; Assam ; Chittagong ; Malaya.
297. *Pteris quadriaurita Retz.*
Fort Lungleh.
Distrib. Punjab ; Assam ; Chittagong ; South and
West India ; Ceylon ; Malaya.

298. *Pteris bicaurita* *Linn.*
 Fort Lungleh.
 Distrib. North-West Himalaya ; Sikkim ; Khasia ;
 South and West India ; Ceylon ; Malaya ; China ;
 Tropical Africa and America.
299. *Blechnum orientale* *Linn.*
 Fort Lungleh.
 Distrib. Nepal ; Sikkim ; Khasia hills ; Chittagong ,
 South India , Ceylon , Malaya , China , Polynesia ,
 Australia.
300. *Asplenium Nidus* *Linn.*
 Fort Lungleh.
 Distrib. Nepal ; Sikkim ; Assam ; Chittagong , South
 India ; Ceylon ; Malaya , Polynesia.
301. *Asplenium bantamense* *Baker.*
 Fifteen miles South-East of Lungleh. Alt. 3,000 feet.
 Distrib. Khasia ; Cachar ; Chittagong ; South India ;
 Malaya ; China.
302. *Asplenium sylvaticum* *Presl.*
 Fifteen miles South-East of Lungleh. Alt. 3,000 feet.
 Distrib. Burmah ; Malaya , South India ; Ceylon ,
 Mauritius.
303. *Asplenium multicaudatum* *Wall.*
 Fort Lungleh.
 Distrib. Nepal ; Sikkim ; Bhotan ; Khasia ; Chittagong.
304. *Didymochlana lunulata* *Desr.*
 Fort Lungleh.
 Distrib. Assam ; Burmah ; Malaya. The discovery of
 this fern goes to show that the doubt thrown upon the
 authenticity of Jenkin's Assam specimens in the
 Calcutta Herbarium, is not well founded.
305. *Nephrodium glandulosum* *J. Sm.*
 Fort Lungleh.
 Distrib. North-Western Himalaya ; Assam ; Chitta-
 gong ; Burmah , Malaya , Philippines.

306. *Nephrodium molle* Desr.
Fort Lungleh.
Distrib. Himalaya ; Chittagong , Burmah : Malaya ;
South and West India ; Africa ; South America ; West
Indies ; Australia.
307. *Nephrodium parasiticum*, C. B. Clarke.
Fort Lungleh.
Distrib. Throughout India.
308. *Nephrodium vastum* Baker.
Between Lungleh and Tuichong. Alt. 2,000-3,000 feet.
Distrib. East Bengal ; Mishmi ; Khasia ; Chittagong ;
Burmah ; Malaya.
309. *Polypodium urophyllum* Wall.
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.
Distrib. North-Western Himalaya ; Sikkim ; Bhotan ;
Chittagong ; South India ; Ceylon ; Malaya ; North
Australia ; Polynesia.
310. *Polypodium multilineatum* Wall.
Fifteen miles South-East of Lungleh. Alt. 3,00 feet.
Distrib. North-Western Himalaya ; Sikkim ; Chitta-
gong ; South India ; Malaya.
311. *Polypodium Heteractis* Mett.
Helio hill, Lungleh. Alt. 3,700 feet.
Distrib. Sikkim ; Bhotan ; Khasia.
312. *Polepodium quercifolium* Iinn.
Fort Lungleh
Distrib. Throughout India ; Malaya ; South China ;
Australia.
- 313 *Polypodium normale* Don.
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.
Distrib. Nepal ; Sikkim ; Bhotan ; Khasia hills.
314. *Polypodium hemionitideum* Wall.
Fort Lungleh.
Distrib. Nepal ; Sikkim ; Bhotan ; Khasia ; Chittagong ;
South India ; Malaya ; China.
315. *Acrostichum virens* Wall.
Fort Lungleh.
Distrib. Chittagong hill tracts.

316. *Lygodium pinnatifidum* Sw.

Fort Lungleh.

Distrib. North-Western Himalaya ; Nepal ; Sikkim ;
 Silhet ; Khasia hills ; Assam ; Kachin hills ; Chitta-
 gong and Burmah ; South and Western India ; Andaman-
 is ; Malaya.

317. *Angiopteris evecta* Hoffm.

Fort Lungleh.

Distrib. Nepal ; Sikkim ; Bhotan ; Chittagong ; South
 India ; Ceylon ; Malaya ; Australia ; Madagascar.

The following table gives a synoptic view of the systematic
 character of the collection :—

Phanerogams	" "			72			215			291
Dicotyledons	" "		62		0	171			288	
Polypetales	" "	88			7			87		
Thalamiflorae	" "	18			21			22		
Disciflorae	" "	8			19			24		
Calyciflorae	" "	12			88			41		
Gamopetales	" "		9			68			78	
Incomplete	" "		10			35			43	
Monocotyledons	" "			10			44			88
Cryptogams	" "				3		18			26
TOTALS	" Nat. orders			75	Genera		225	Species		317

Amongst the Phanerogams the Natural order Orchidaceae comes first with 49 species, next Filices with 23 species, Leguminosae with 18 species, Urticaceae with 15 species, Rubiaceae with 14, Euphorbiaceae with 13 species, Acanthaceae with 11 species, Compositae with 10 species. Of the remainder there are one order with 8 species, one with 7 species, ten with 6 species, three with 5 species, nine with 4 species, ten with 3 species, with 2 species, twentyeight with 1 species.

